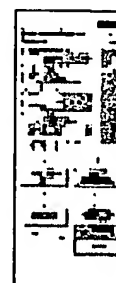


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Title: **JP2000321628A2: PAN TILT CAMERA DEVICE**  
 Country: **JP Japan**  
 Kind: **A2 Document Laid open to Public inspection**  
 Inventor: **KEI KOU;  
OYA AKIRA;**  
 Assignee: **YOKOGAWA ELECTRIC CORP**  
           [News, Profiles, Stocks and More about this company](#)  
 Published / Filed: **2000-11-24 / 1999-05-12**  
 Application Number: **JP1999000131126**  
 IPC Code: **G03B 15/00; F16M 11/12; H04N 5/232;**  
 Priority Number: **1999-05-12 JP1999000131126**  
 Abstract:



**PROBLEM TO BE SOLVED:** To provide a pan tilt camera device improved in the stop position accuracy of the pan tilt camera device by correcting a backlash of the pan tilt camera device.

**SOLUTION:** This pan tilt camera device includes a pan tilt camera controller 1 for controlling the operation over the entire part of the pan tilt camera device, a pulse motor 2 operated by the signal from the pan tilt camera controller 1, a speed reduction mechanism 3 having a gear mechanism connected to the pulse motor 2 and an operation shaft 4 of a pan tilt camera body connected to the speed reduction mechanism 3. The pan tilt camera device described above has a rotating direction change detecting mechanism 11 which detects the change in the rotating direction of the pulse motor 3 and a backlash correction circuit 13 which sends a correction signal to add the value of the backlash of the speed reduction mechanism 3 to a position where the pan tilt camera is stopped next by the detection signal of the rotating direction change detecting mechanism 11 to the pan tilt camera controller 1.

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Family: **None**  
 Other Abstract Info: **DERABS G2001-076018 DERABS G2001-076018**



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(11) Publication number: 200

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## PATENT ABSTRACTS OF JAPAN

(21) Application number: 11131126

(51) Intl. Cl.: G03B 15/00 F16M 11/12 H

(22) Application date: 12.05.99

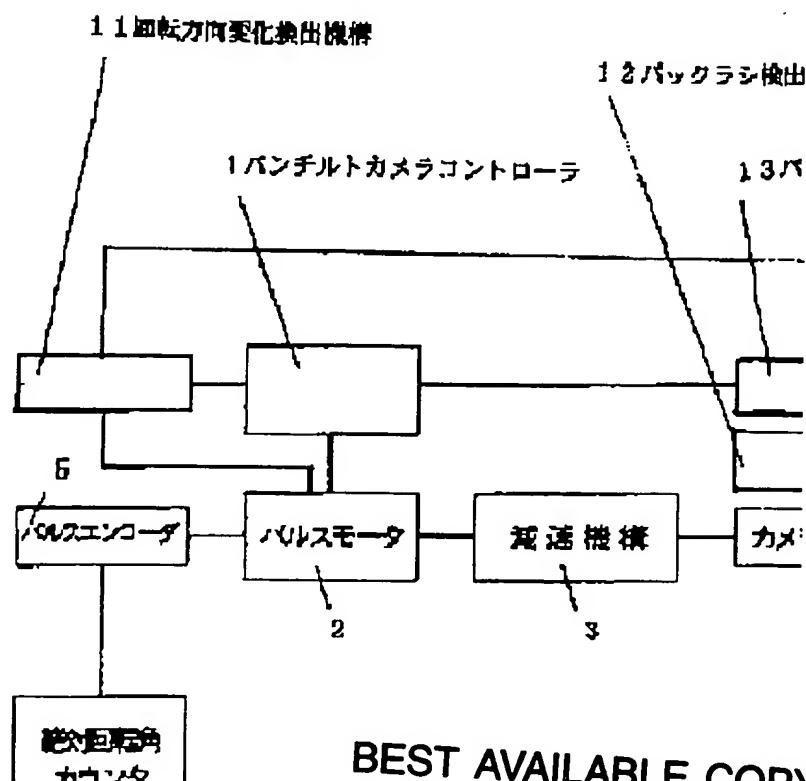
<p>(30) Priority:</p> <p>(43) Date of application publication: 24.11.00</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: YOKOGAWA ELECT</p> <p>(72) Inventor: KEI KOU OYA AKIRA</p> <p>(74) Representative:</p>
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## (54) PAN TILT CAMERA DEVICE

(57) Abstract:

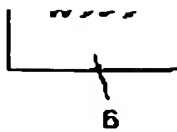
**PROBLEM TO BE SOLVED:** To provide a pan tilt camera device improved in the stop position accuracy of the pan tilt camera device by correcting a backlash of the pan tilt camera device.

**SOLUTION:** This pan tilt camera device includes a pan tilt camera controller 1 for controlling the operation over the entire part of the pan tilt camera device, a pulse motor 2 operated by the signal from the pan tilt camera controller 1, a speed reduction mechanism 3 having a gear mechanism connected to the pulse motor 2 and an operation shaft 4 of a pan tilt camera body connected to the speed reduction mechanism 3. The pan tilt camera device described above has a rotating direction change detecting mechanism 11 which detects the change in the rotating direction of the pulse motor 2 and a



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direction of the pulse motor 5 and a backlash correction circuit 13 which sends a correction signal to add the value of the backlash of the speed reduction mechanism 3 to a position where the pan tilt camera is stopped next by the detection signal of the rotating direction change detecting mechanism 11 to the pan tilt camera controller 1.



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(11) Publication number: 200

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## PATENT ABSTRACTS OF JAPAN

(21) Application number: 11146014

(51) Intl. Cl.: G03B 5/04 H04N 5/225 H0

(22) Application date: 26.05.99

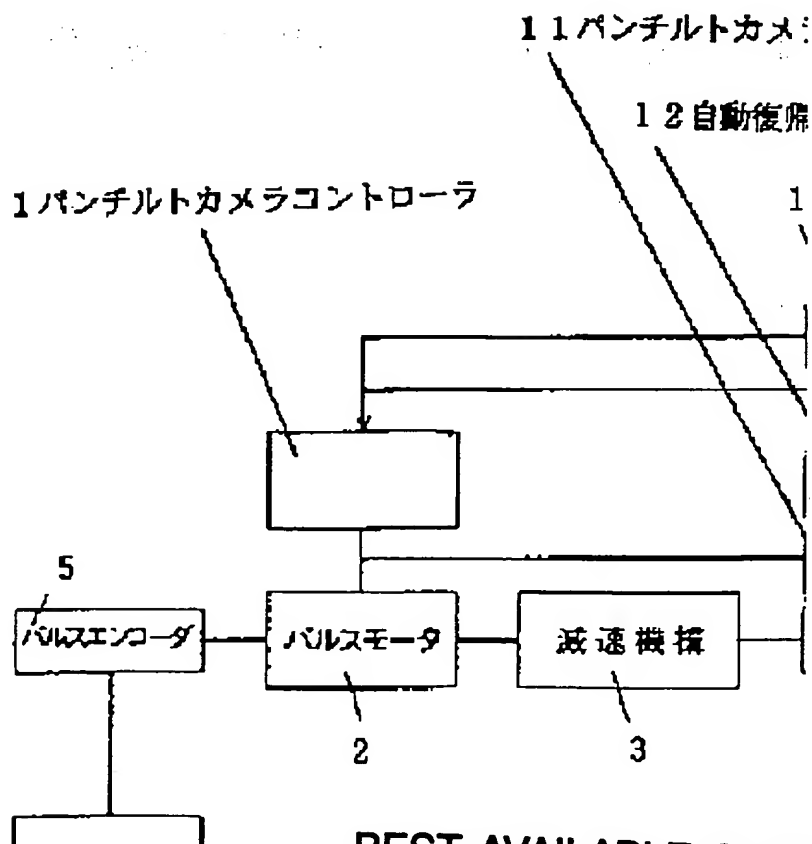
<p>(30) Priority:</p> <p>(43) Date of application publication: 08.12.00</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: YOKOGAWA ELECTRIC CO., LTD.</p> <p>(72) Inventor: KEI KOU OYA AKIRA</p> <p>(74) Representative:</p>
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## (54) PAN TILT CAMERA APPARATUS

(57) Abstract:

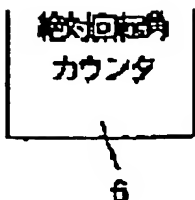
**PROBLEM TO BE SOLVED:** To provide a pan tilt camera apparatus capable of automatically restoring the driving of a pulse motor when a step out has occurred in the pulse motor occurs.

**SOLUTION:** This pan tilt camera apparatus is equipped with a pan tilt camera controller 1 controlling the operation of the entire pan tilt camera apparatus, the pulse motor 2 operated according to a signal from the controller 1, and a pan tilt camera driven by the motor 2. Then, it is equipped with a pan tilt camera driving monitoring part 11 monitoring whether or not the pan tilt camera is driven at the time of driving the motor 2, and an automatic restoration instruction circuit 12 transmitting a signal to the controller 1 based on a detection signal on the step out state of the motor 2 from the



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step out state of the motor 2 from the monitoring part 11 so that the driving frequency of the pulse motor is lowered to automatically start the pulse motor.



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